

K2_RK3399 Upgrade Guide

V1.0

Geniatech

Content

REVISION HISTORY	3
1. Buildroot on the K2_RK3399	4
2. Installing Debian	4
2.1 Installing the image from a Host-pc	4

REVISION HISTORY

DATE	REVISION TYPE	REVISIO N #	COMM ENTS	INITIALS
04/12/2023	Major	1.0	Initial version	Li

1. Debian on the K2-RK3399

K2-RK3399 currently supports the system: Debian9.

2. Installing Debian9

2.1 Installing the image from a Host-pc

2.1.1 Installation prerequisites

- USB-USB data cable
- Host PC
- K2-RK3399 Board
- 12V Power supply
- Windows 64bit

2.1.2 Step1. Download the Debian images and Tools from the below website

Debian images:

rk3399-debian_RKE200620-k2_hwV1.1_XXXXXX.tar.gz

Download link:

Tools: RKDevTool_Release_v2.61.zip (Included in images)

Driver: DriverAssitant_v4.8.zip

Download link:

<https://mega.nz/file/qoVlCKgZ#HiKDzY3Lc3PVeoaqzmMfC6mxun30uGByl8WOOOPL>
[EQU](#)

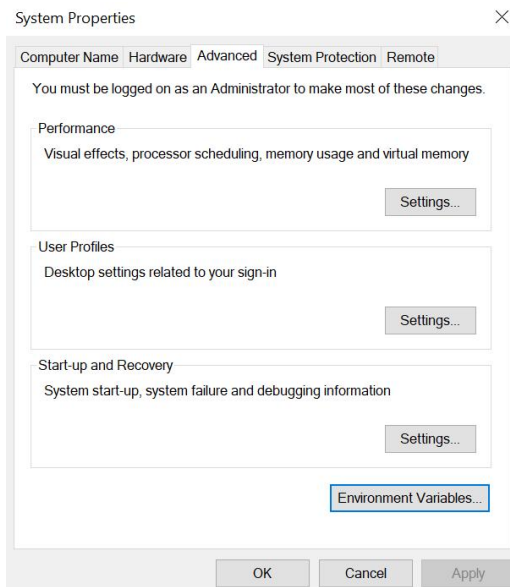
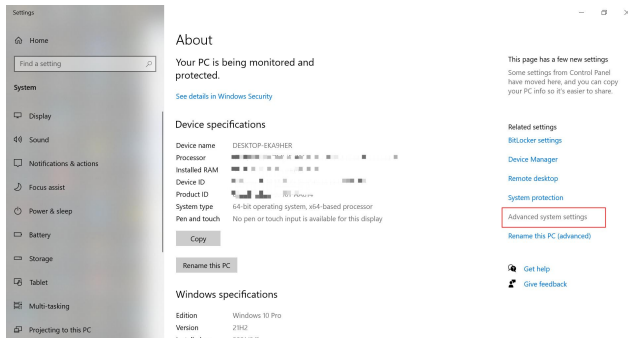
2.1.3 Step 2. Setting up the burn environment

Download the ADB from below website:

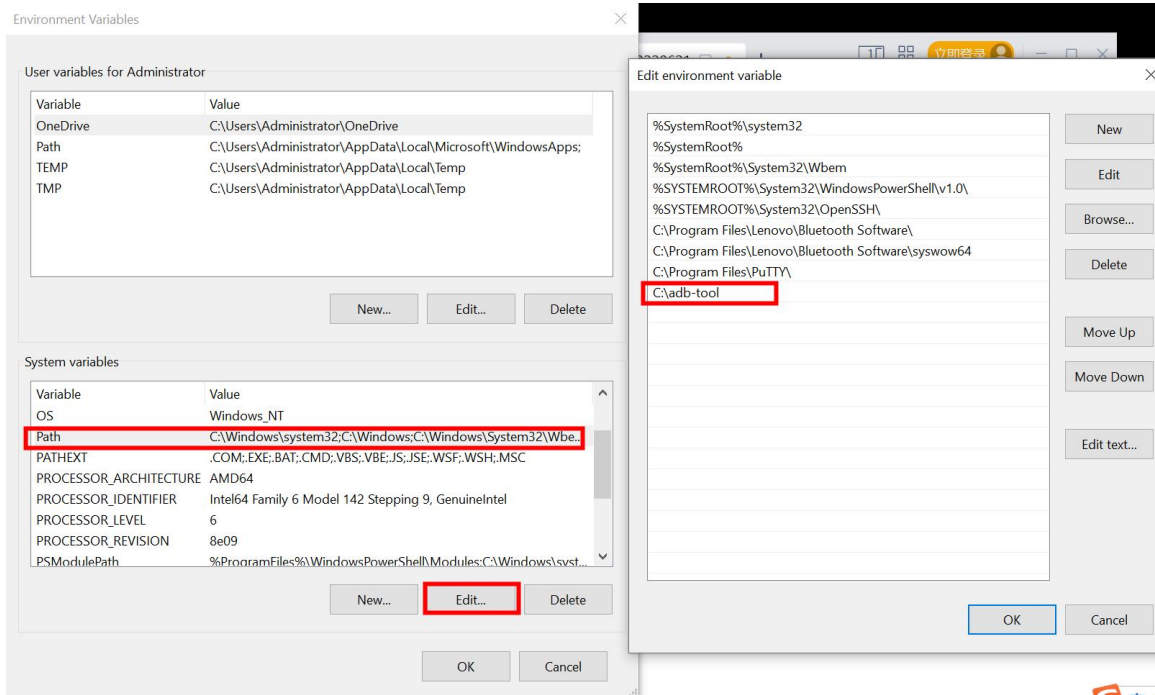
<https://mega.nz/file/3tt2yail#eh7xioimmVkJCNKiSHMuvWC3d4v8JDaGjUSaZyLToQ>

The burning process requires the computer to install ADB and configure environment variables.(if there is an existing environment, please ignore it)

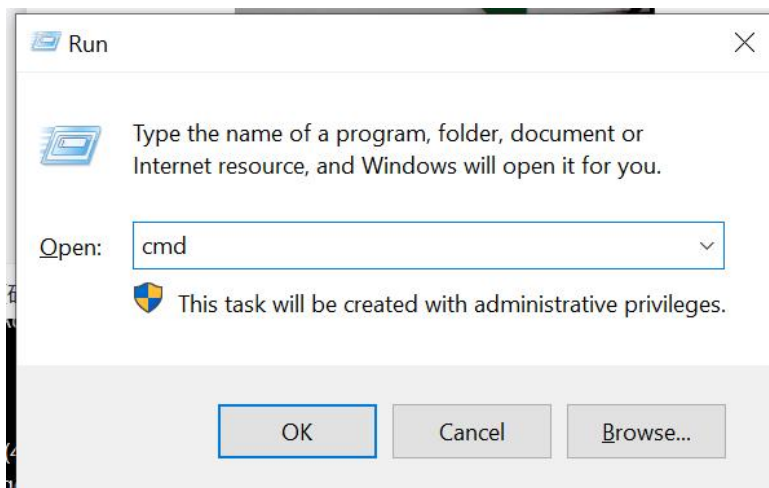
- 1) Unzip adb-tool.zip and place it in the root directory of the computer's C drive.
- 2) Open the computer "Settings"->"System"->"About"->"Advanced system settings", select "Environment Variadles".



- 3) Under "system variables", select "Path"->"Edit", add the path of adb-tool, and click "ok" to save the settings when finished.



4) Environment verification. Dos window output adb to display the adb version.



```
C:\Users\Administrator>adb
Android Debug Bridge version 1.0.39
Revision 3db08f2c6889-android
Installed as C:\adb-tool\adb.exe

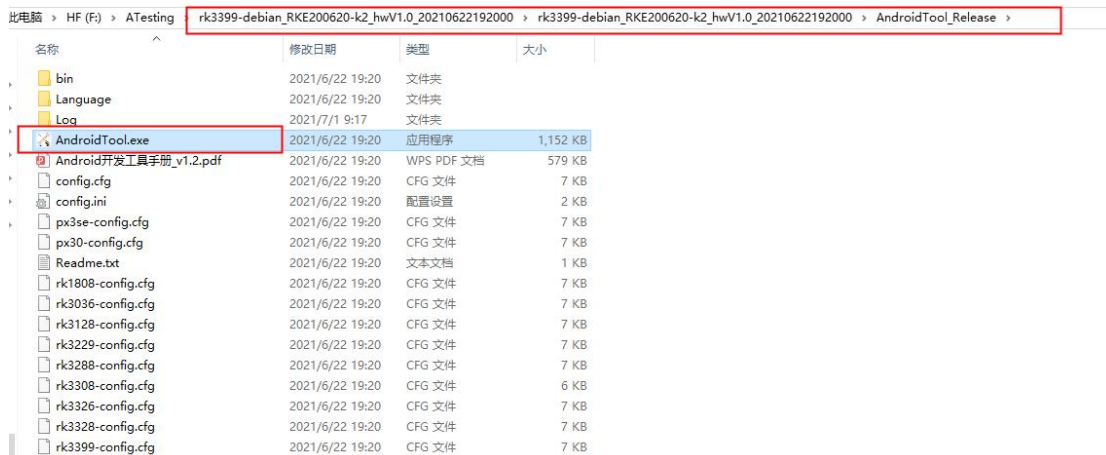
global options:
-a          listen on all network interfaces, not just localhost
-d          use USB device (error if multiple devices connected)
-e          use TCP/IP device (error if multiple TCP/IP devices available)
-s SERIAL   use device with given serial number (overrides $ANDROID_SERIAL)
-p PRODUCT  name or path ('angler'/'out/target/product/angler');
            default $ANDROID_PRODUCT_OUT
-H          name of adb server host [default=localhost]
-P          port of adb server [default=5037]
-L SOCKET   listen on given socket for adb server [default=tcp:localhost:5037]

general commands:
devices [-l]    list connected devices (-l for long output)
help           show this help message
version        show version num
```

2.1.4 Step 3. Bring the board into burn mode

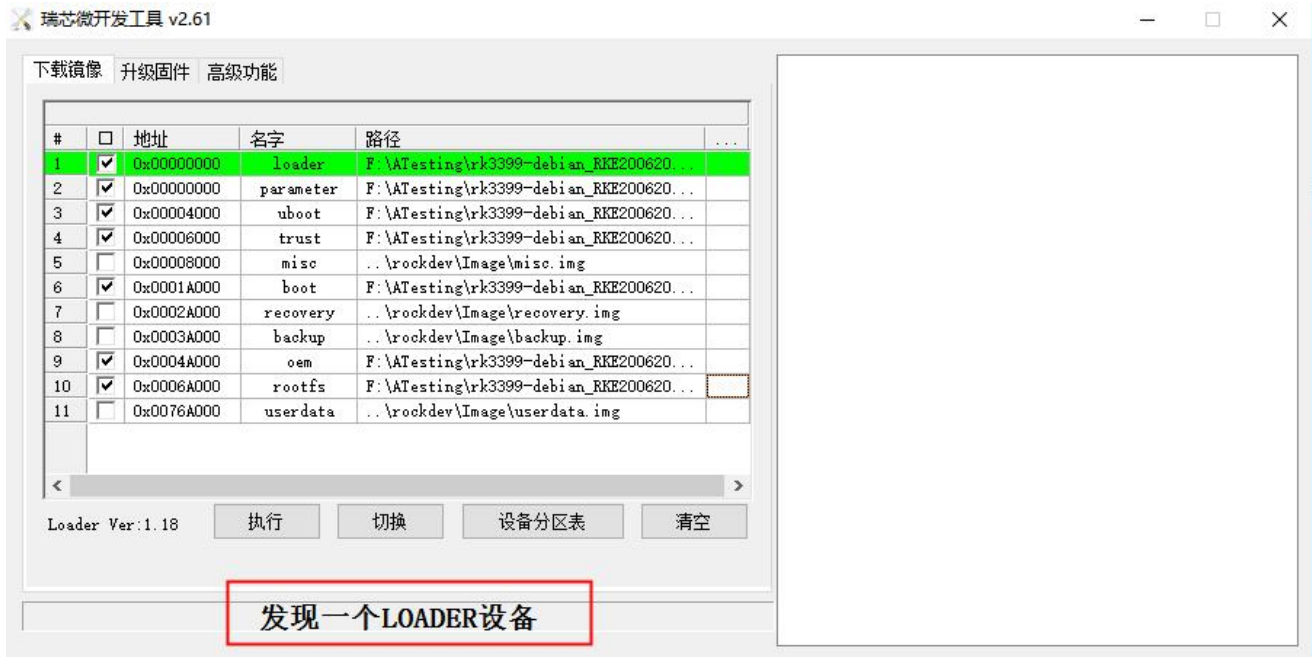
1) Open DriverAssitant_v4.8 folder, double-click DriverInstall.exe to install the driver.

Then open RKDevTool_Release, double-click RKDevTool.exe to open it.



2) Connect K2-RK3399 and PC with the USB data cable , press and hold the upgrade button, and power on the device while holding the upgrade button for 5-10s, it will prompt “Found One LOADER Device”.



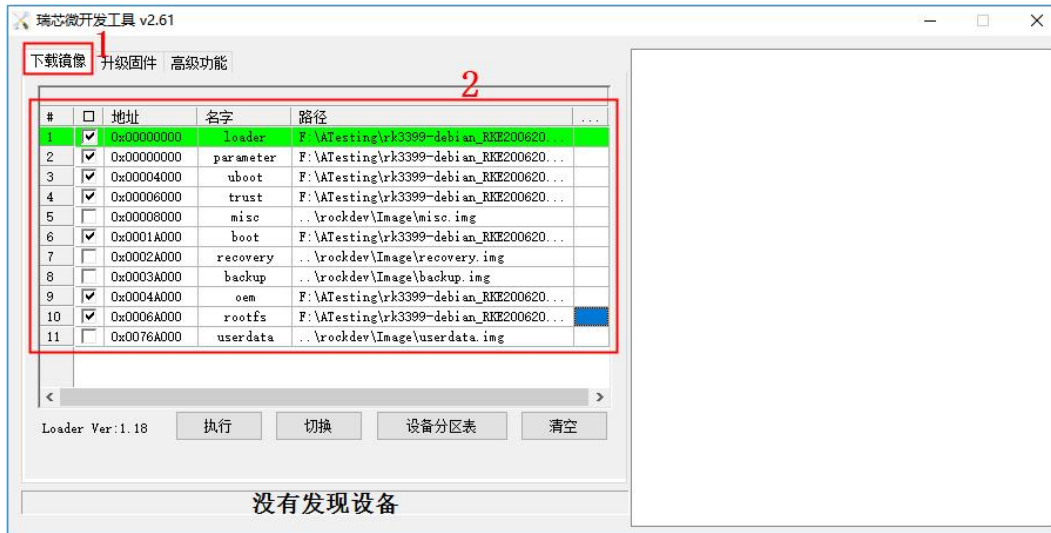


3) At the same time, the PC device manager will find a Rockchip device.

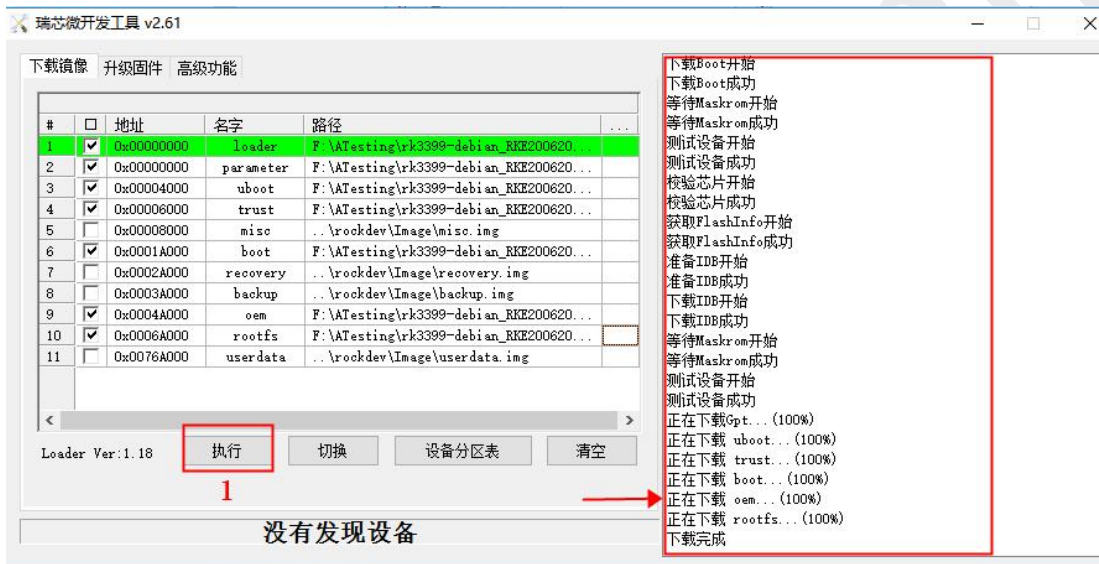


2.1.5 Step 4. Flash the Debian image

1) Unzip rk3399-debian_RKE200620-k2_hwV1.1_XXXXXX.tar.gz, and select the corresponding seven files in the Debian firmware folder.



2) Click the "Execute" button to start the burning, and the burning is successful as follows. When the upgrade is complete, the box will restart automatically.



2.1.6 Step 5: Reboot and enjoy!

Remove the USB data cable, connect to the HDMI screen and power on again, the system will start normally. Wait for the system startup to complete (about 1min) and you can enjoy it.